

1992 SUBJECT INDEX

Aeration

- From Conventional to Biological
Removal of Iron and Manganese in
France 84:4:158
Pierre Mouchet
- Using Inclined Cascade Aeration to
Strip Chlorinated VOCs From
Drinking Water 84:5:62
*Brace H. Boyden, Duong T. Bank,
Houston K. Huckabay, and Joseph B.
Fernandes*

Alum

- Selective Alum Recovery From Clarifier
Sludge 84:1:93
Arup K. Sengupta and Bo Shi
- Evaluating the Removal of Color From
Water Using Direct Filtration and
Dual Coagulants 84:5:105
*Nigel J.D. Graham, Cristina C.S.
Brandao, and Paul F. Luckham (See
also Erratum 84:10:4)*
- Transformation of NOM by Ozone and
Its Effect on Iron and Aluminum
Solubility 84:6:56
Marc Edwards and Mark M. Benjamin
- Effect of Preozonation on Coagulant-
NOM Interactions 84:8:63
Marc Edwards and Mark M. Benjamin

Analytical methods

- Presence-Absence Coliform
Monitoring Has Statistical
Limitations 84:3:66
M. Brett Borup
- Evaluating a Commercially Available
Defined-Substrate Test for Recovery
of Chlorine-Treated
Escherichia coli 84:5:91
*Shawn C. McCarty, Jon H. Standridge,
and Marilyn C. Stasiak*
- Comparing Defined-Substrate Coliform
Tests for the Detection of *Escherichia
coli* in Water 84:5:98
*Terry C. Covert, Eugene W. Rice, Scott
A. Johnson, Donald Berman, Clifford
H. Johnson, and Paralee J. Mason*
- Developing a Computer Model to
Simulate DBP Formation During
Water Treatment 84:11:78
*Gregory W. Harrington, Zaid K.
Choudhury, and Douglas M. Owen*
- Using Ion Chromatography to Analyze
Inorganic Disinfection
By-products 84:11:88
*Daniel P. Hautman and Michele
Bolyard*
- Comparison of the Microextraction
Procedure and Method 552 for the
Analysis of HAAs
and Chlorophenols 84:11:94
*Robert C. Barth and Patricia Synder
Fair*

An Analysis of Low-Level Turbidity

- Measurements 84:12:40
*Vincent S. Hart, Raymond D.
Letterman, and C.E. Johnson*

Atrazine

- Removal of Atrazine From Drinking
Water By Ozonation 84:9:91
*Craig D. Adams and Stephen J.
Randtke*

Biological treatment

- Performance Evaluation of Biologically
Active Rapid Filters 84:4:136
*Mark W. LeChevallier, William C.
Becker, Paul Schorr, and Ramon G.
Lee*
- Effects of Fluctuations in
Biodegradable Organic Matter on
Nitrification Filters 84:4:147
*Jacques A. Manem and Bruce E.
Rittmann*
- Removing Trace Level Pollutants in a
Biological Filter 84:4:152
*Jacques A. Manem and Bruce E.
Rittmann*
- From Conventional to Biological
Removal of Iron and Manganese in
France 84:4:158
Pierre Mouchet
- Disinfection By-product Formation and
Control by Ozonation and
Biotreatment 84:11:53
*Richard J. Miltner, Hiba M. Shukairy,
and R. Scott Summers*

Chloramines

- Comparing Chlorination and
Chloramination for Controlling
Bacterial Growth 84:7:80
*Douglas G. Neden, Robert J. Jones,
Judy R. Smith, Gregory J. Kirmeyer,
and Glenn W. Foust*

Chlorination

- Will Chlorination Exist in 2000? 84:3:18
Roundtable
- Comparing Chlorination and
Chloramination for Controlling
Bacterial Growth 84:7:80
*Douglas G. Neden, Robert J. Jones,
Judy R. Smith, Gregory J. Kirmeyer,
and Glenn W. Foust*
- Assessing Sulfur Turbidity Formation
Following Chlorination of Hydrogen
Sulfide in Groundwater 84:9:103
Troy L. Lyn and James S. Taylor
- Combining Methods for the Reduction
of Oxychlorine Residuals in Drinking
Water 84:11:69
*Mark H. Griesse, Jerry J. Kaczur, and
Gilbert Gordon*

Chlorine dioxide

- Tastes and Odors Associated With
Chlorine Dioxide 84:6:82
*Andrea M. Dietrich, Margaret P. Orr,
Daniel L. Gallagher, and Robert C.
Hoehn*

Chlorite

- Removing Chlorite by the Addition of
Ferrous Iron 84:11:63
Angela Iatrou and William R. Knocke

Coagulation

- Evaluating the Removal of Color From
Water Using Direct Filtration and
Dual Coagulants 84:5:105
*Nigel J.D. Graham, Cristina C.S.
Brandao, and Paul F. Luckham (See
also Erratum 84:10:4)*
- Effect of Preozonation on
Coagulant-NOM Interactions 84:8:63
Marc Edwards and Mark M. Benjamin

Coliforms

- Presence-Absence Coliform
Monitoring Has Statistical
Limitations 84:3:66
M. Brett Borup
- Evaluating a Commercially Available
Defined-Substrate Test for Recovery
of Chlorine-Treated
Escherichia coli 84:5:91
*Shawn C. McCarty, Jon H. Standridge,
and Marilyn C. Stasiak*
- Comparing Defined-Substrate Coliform
Tests for the Detection of *Escherichia
coli* in Water 84:5:98
*Terry C. Covert, Eugene W. Rice, Scott
A. Johnson, Donald Berman, Clifford
H. Johnson, and Paralee J. Mason*

Committee reports

- Committee Report: Membrane
Processes in Potable Water
Treatment 84:1:59
*AWWA Membrane Technology
Research Committee*

Compliance monitoring

- Avoiding Litigation and Preserving
Public Confidence Through
Compliance Auditing 84:9:64
Steven J. Koorse

Computers

- Making Automated Systems
Successful: How to Win the Hearts
of Organizational Skeptics ... 84:1:52
*Mary Winter Bennett and W. Joseph
Myers*

Expert Systems Show Promise for Customer Service	84:2:42
<i>Richard M. Males, Judith A. Coyle, Harry J. Borchers, Beth G. Hertz, Walter M. Grayman, and Robert M. Clark</i>	
Voice Mail for the '90s:	
A Case Study	84:2:50
<i>Todd Scott Bales</i>	
Distribution System Quality: A Trade-Off Between Public Health and Public Safety	84:7:18
<i>Robert M. Clark and Walter M. Grayman</i>	
Animation and Visualization of Water Quality in Distribution Systems	84:7:48
<i>Rolf A. Deininger, Robert M. Clark, Alan F. Hess, and Elmer Bernstam</i>	
Proper Meter Sizing for Increased Accountability and Revenue ..	84:7:53
<i>John P. Sullivan Jr. and Elisa M. Speranza</i>	
Washington Suburban Sanitary Commission Implements GIS	84:7:62
<i>James R. Cannistra, Richard Leadbeater, and Ray Humphries</i>	
Computer Control of Operations at a Large Distribution System ..	84:7:68
<i>Chun Hou Orr, Bogimil Ulanicki, and J.P. Rance</i>	
Developing and Utilizing Data Bases for Water Main Rehabilitation	84:7:75
<i>Ahmad Habibian</i>	
Computer-Aided Design Becoming More Integrated	84:8:22
<i>Gary Benjamin</i>	
LIMS and LANS Help Labs	84:9:33
<i>John A. Dekam</i>	
Finding Information With Today's Technology	84:10:30
<i>Kurt Keeley</i>	
Developing a Computer Model to Simulate DBP Formation During Water Treatment	84:11:78
<i>Gregory W. Harrington, Zaid K. Chowdhury, and Douglas M. Owen</i>	
Technical Note: Comparing Predicted and Observed Concentrations of DBPs	84:11:99
<i>Anthony D. Greiner, Alexa Obolensky, and Philip C. Singer</i>	
Is It Time to Take the Plunge Into Expert Systems?	84:12:22
<i>Anthony G. Collins</i>	

Conservation

Proper Meter Sizing for Increased Accountability and Revenue ..	84:7:53
<i>John P. Sullivan Jr. and Elisa M. Speranza</i>	
Urban Drought Response in Southern California: 1990-91	84:10:34
<i>Douglas T. Shaw, R. Todd Henderson, and Martha E. Cardona</i>	
Creating Economic Incentives for Conservation	84:10:42
<i>Amy Vickers and Edward J. Markus</i>	

Developing a Long-Term Drought Plan for Phoenix	84:10:46
<i>Benedykt Dziegielewski, William R. Mee Jr., and Keith R. Larson</i>	
Water Demand Monitoring in Austin, Texas	84:10:52
<i>Eric Rothstein</i>	
Water Audit Encourages Residents to Reduce Consumption	84:10:59
<i>John Olaf Nelson</i>	
Nonresidential Water Conservation: A Good Investment	84:10:65
<i>Jane H. Ploeser, Charles W. Pike, and J. Douglas Kobrick</i>	
Potential Impact of Water-Efficient Plumbing Fixtures on Office Water Consumption	84:10:74
<i>Patrick J. Behling and Nicholas J. Bartilucci</i>	

Construction

Estimating Costs for Treatment Plant Construction	84:8:56
<i>Sayed R. Qasim, Siang (Daniel) Lim, Edward M. Motley, and Kim G. Heung</i>	
Use of EJDCDC Documents Reduces Conflicts	84:9:73
<i>Kenneth W. Henderson</i>	

Costs

Proper Meter Sizing for Increased Accountability and Revenue ..	84:7:53
<i>John P. Sullivan Jr. and Elisa M. Speranza</i>	

Cryptosporidium

Examining Relationships Between Particle Counts and <i>Giardia</i> , <i>Cryptosporidium</i> , and Turbidity	84:12:54
<i>Mark W. LeChevallier and William D. Norton</i>	

Customer service

Expert Systems Show Promise for Customer Service	84:2:42
<i>Richard M. Males, Judith A. Coyle, Harry J. Borchers, Beth G. Hertz, Walter M. Grayman, and Robert M. Clark</i>	
Voice Mail for the '90s:	
A Case Study	84:2:50
<i>Todd Scott Bales</i>	
Performance Chart Increases Crew Productivity	84:2:53
<i>Stanley Y. Siu</i>	

Defined substrate tests

Evaluating a Commercially Available Defined-Substrate Test for Recovery of Chlorine-Treated <i>Escherichia coli</i>	84:5:91
<i>Shawn C. McCarty, Jon H. Standridge, and Marilyn C. Stasiak</i>	
Comparing Defined-Substrate Coliform Tests for the Detection of <i>Escherichia coli</i> in Water	84:5:98
<i>Terry C. Covert, Eugene W. Rice, Scott A. Johnson, Donald Berman, Clifford H. Johnson, and Paralee J. Mason</i>	

Disinfection

Will Chlorination Exist in 2000?	84:3:18
<i>Roundtable</i>	
Tastes and Odors Associated With Chlorine Dioxide	84:6:82
<i>Andrea M. Dietrich, Margaret P. Orr, Daniel L. Gallagher, and Robert C. Hoehn</i>	
Comparing Chlorination and Chloramination for Controlling Bacterial Growth	84:7:80
<i>Douglas G. Neden, Robert J. Jones, Judy R. Smith, Gregory J. Kirmeyer, and Glenn W. Foust</i>	
Effect of Preozonation on Coagulant-NOM Interactions	84:8:63
<i>Marc Edwards and Mark M. Benjamin</i>	
USEPA Release Draft Ground Water Disinfection Rule	84:9:25
<i>Thomas R. Grubbs and Frederick W. Pontius</i>	
Survey of Disinfection Practices in the Water Industry	84:9:121
<i>Water Quality Division Disinfection Committee</i>	
'Reg Neg' Considered for D-DBP Rule	84:11:22
<i>Frederick W. Pontius</i>	
Disinfection By-product Formation and Control by Ozonation and Biotreatment	84:11:53
<i>Richard J. Miltner, Hiba M. Shukairy, and R. Scott Summers</i>	
Combining Methods for the Reduction of Oxychlorine Residuals in Drinking Water	84:11:69
<i>Mark H. Giese, Jerry J. Kaczur, and Gilbert Gordon</i>	
Developing a Computer Model to Simulate DBP Formation During Water Treatment	84:11:78
<i>Gregory W. Harrington, Zaid K. Chowdhury, and Douglas M. Owen</i>	
Using Ion Chromatography to Analyze Inorganic Disinfection By-products	84:11:88
<i>Daniel P. Hautman and Michele Bolyard</i>	
Comparison of the Microextraction Procedure and Method 552 for the Analysis of HAAs and Chlorophenols	84:11:94
<i>Robert C. Barth and Patricia Synder Fair</i>	
Technical Note: Comparing Predicted and Observed Concentrations of DBPs	84:11:99
<i>Anthony D. Greiner, Alexa Obolensky, and Philip C. Singer</i>	
Disinfection by-products	
Controlling Microbes Versus Disinfection By-products	84:2:24
<i>Face to Face</i>	
Survey of Disinfection Practices in the Water Industry	84:9:121
<i>Water Quality Division Disinfection Committee</i>	

Disinfection By-product Formation and Control by Ozonation and Biotreatment	84:11:53
<i>Richard J. Miltner, Hiba M. Shukairy, and R. Scott Summers</i>	
Removing Chlorite by the Addition of Ferrous Iron	84:11:63
<i>Angela Iatrou and William R. Knoche</i>	
Combining Methods for the Reduction of Oxychlorine Residuals in Drinking Water	84:11:69
<i>Mark H. Griese, Jerry J. Kaczur, and Gilbert Gordon</i>	
Developing a Computer Model to Simulate DBP Formation During Water Treatment	84:11:78
<i>Gregory W. Harrington, Zaid K. Chowdhury, and Douglas M. Owen</i>	
Using Ion Chromatography to Analyze Inorganic Disinfection By-products	84:11:88
<i>Daniel P. Hautman and Michele Bolyard</i>	
Comparison of the Microextraction Procedure and Method 552 for the Analysis of HAA's and Chlorophenols	84:11:94
<i>Robert C. Barth and Patricia Synder Fair</i>	
Technical Note: Comparing Predicted and Observed Concentrations of DBPs	84:11:99
<i>Anthony D. Greiner, Alexa Obolensky, and Philip C. Singer</i>	
Dissolved air flotation	
Flocculation and Air Requirements for Dissolved Air Flotation	84:3:92
<i>James K. Edzwald, John P. Walsh, Gary S. Kaminski, and Howard J. Dunn</i>	
Distribution systems	
Distribution System Quality: A Trade-Off Between Public Health and Public Safety	84:7:18
<i>Robert M. Clark and Walter M. Grayman</i>	
Animation and Visualization of Water Quality in Distribution Systems	84:7:48
<i>Rolf A. Deininger, Robert M. Clark, Alan F. Hess, and Elmer Bernstam</i>	
Proper Meter Sizing for Increased Accountability and Revenue	84:7:53
<i>John P. Sullivan Jr. and Elisa M. Speranza</i>	
Washington Suburban Sanitary Commission Implements GIS	84:7:62
<i>James R. Cannistra, Richard Leadbeater, and Ray Humphries</i>	
Computer Control of Operations at a Large Distribution System	84:7:68
<i>Chun Hou Orr, Bogimil Ulanicki, and J.P. Rance</i>	
Developing and Utilizing Data Bases for Water Main Rehabilitation	84:7:75
<i>Ahmad Habibian</i>	

Errata

Erratum to: Legislation/Regulation	84:3:4
Erratum to: Cancer Risk From Radon	84:4:4
<i>Douglas John Crawford-Brown</i>	
Erratum to: Contaminants in Polyelectrolytes Used in Water Treatment	84:9:4
<i>Raymond D. Letterman and Richard W. Pero</i>	
Erratum to: Evaluating the Removal of Color From Water Using Direct Filtration and Dual Coagulants	84:10:4
<i>Nigel J.D. Graham, Cristina C.S. Brandao, and Paul F. Luckham</i>	

Filtration

Effects of Particle Detachment in Granular-Media Filtration	84:2:66
<i>Thomas M. Ginn Jr., Appiah Amirtharajah, and Philip R. Karr</i>	
Evaluating GAC Adsorbers for the Removal of PCBs and Toxaphene	84:2:83
<i>Massoud Pirbazari, Badri N. Badriyha, Sung-Hyun Kim, and Richard J. Miltner</i>	
Removing Lead From Drinking Water With a Point-of-Use GAC Fixed-Bed Adsorber	84:2:90
<i>Roy W. Kuennen, Roy M. Taylor, Karl Van Dyke, and Kevin Groenevelt</i>	
Carbon Regeneration: Dependence on Time and Temperature	84:3:82
<i>Mark A. Waer, Vernon L. Snoeyink, and Kathryn L. Mallon</i>	
Selecting Batch Studies for Adsorber Design: Molecular Oxygen's Role	84:3:101
<i>Radisav D. Vidic and Makram T. Suidan</i>	
Performance Evaluation of Biologically Active Rapid Filters	84:4:136
<i>Mark W. LeChevallier, William C. Becker, Paul Schorr, and Ramon G. Lee</i>	
Effects of Fluctuations in Biodegradable Organic Matter on Nitrification Filters	84:4:147
<i>Jacques A. Manem and Bruce E. Rittmann</i>	
Removing Trace Level Pollutants in a Biological Filter	84:4:152
<i>Jacques A. Manem and Bruce E. Rittmann</i>	
From Conventional to Biological Removal of Iron and Manganese in France	84:4:158
<i>Pierre Mouchet</i>	

Removing Natural Organic Matter by Conventional Slow Sand Filtration	84:5:80
<i>M. Robin Collins, T. Taylor Eighmy, James M. Fenstermacher Jr., and Stergios K. Spanos</i>	
Evaluating the Removal of Color From Water Using Direct Filtration and Dual Coagulants	84:5:105
<i>Nigel J.D. Graham, Cristina C.S. Brandao, and Paul F. Luckham (See also erratum 84:10:4)</i>	
Comparing Plant-Scale Dual- and Mixed-Media Filters	84:6:76
<i>Elliott Barnett, R. Bruce Robinson, D. Wayne Loveday, and Joe Snyder</i>	
Contact Filtration: Particle Size and Ripening	84:12:61
<i>S.C. Clark, Desmond F. Lawler, and R.S. Cushing</i>	
Pilot Study of the Effect of Ozone and PEROXONE on In-Line Direct Filtration	84:12:72
<i>John E. Tobiasson, James K. Edzwald, O.D. Schneider, and M.B. Fox</i>	
How Preoxidation Affects Particle Removal During Clarification and Filtration	84:12:85
<i>Andrzej Wilczak</i>	
MF-PAC for Treating Waters Contaminated With Natural and Synthetic Organics	84:12:95
<i>Massoud Pirbazari, Badri N. Badriyha, and Varadarajan Ravindran</i>	
DBP Control by Nanofiltration: Cost and Performance	84:12:104
<i>Trisha J. Blau, James S. Taylor, Kevin E. Morris, and Luke A. Mulford</i>	

Flavor profile analysis

Assessing the Quality of Flavor Profile Analysis	84:6:89
<i>An-Kuo Meng and Irwin H. (Mel) Suffet</i>	
Cucumber Flavor in Philadelphia's Drinking Water	84:8:92
<i>Gary A. Burlingame, John J. Muldowney, and Roy E. Maddrey</i>	

Flocculation

Flocculation and Air Requirements for Dissolved Air Flotation	84:3:92
<i>James K. Edzwald, John P. Walsh, Gary S. Kaminski, and Howard J. Dunn</i>	

Giardia

Effects of Particle Detachment in Granular-Media Filtration	84:2:66
<i>Thomas M. Ginn Jr., Appiah Amirtharajah, and Philip R. Karr</i>	
Examining Relationships Between Particle Counts and Giardia, Cryptosporidium, and Turbidity	84:12:54
<i>Mark W. LeChevallier and William D. Norton</i>	

Granular activated carbon

- Evaluating GAC Adsorbers for the Removal of PCBs and Toxaphene 84:2:83
Massoud Pirbazzari, Badri N. Badriya, Sung-Hyun Kim, and Richard J. Miltner

- Removing Lead From Drinking Water With a Point-of-Use GAC Fixed-Bed Adsorber 84:2:90
Roy W. Kuennen, Roy M. Taylor, Karl Van Dyke, and Kevin Groenevelt

- Carbon Regeneration: Dependence on Time and Temperature 84:3:82
Mark A. Waer, Vernon L. Snoeyink, and Kathryn L. Mallon

- Selecting Batch Studies for Adsorber Design: Molecular Oxygen's Role 84:3:101
Radisav D. Vidic and Makram T. Suidan

- Effect of Calcium on Thermal Regeneration of GAC 84:8:73
Detlef R.U. Knappe, Vernon L. Snoeyink, Gérard Dagois, and James R. DeWolfe

- Effects of Background Dissolved Organic Matter on TCE Adsorption by GAC 84:8:81
Margaret C. Carter, Walter J. Weber Jr., and Kevin P. Olmstead

- Effect of Molecular Oxygen on the Scaleup of GAC Adsorbers 84:8:98
Radisav D. Vidic, George A. Sorial, Spyridon P. Papadimas, Makram T. Suidan, and Thomas F. Speth

- Using Isotherms to Predict GAC's Capacity for Synthetic Organics 84:9:113
S. Qi, Vernon L. Snoeyink, E.A. Beck, Wayne E. Kofsky, and Benjamin W. Lykins Jr.

Groundwater

- Removing Color From a Groundwater Source 84:1:79
Lo Tan and Richard G. Sudak

- USEPA Release Draft Ground Water Disinfection Rule 84:9:25
Thomas R. Grubbs and Frederick W. Pontius

- Characterizing the Influence of Surface Water on Water Produced by Collector Wells 84:9:77
M. Susan Mikels

- Nitrate Contamination of Groundwater: Sources and Potential Health Effects 84:9:85
Dermont C. Bouchard, Mary K. Williams, and Rao Y. Surampalli

- Assessing Sulfur Turbidity Formation Following Chlorination of Hydrogen Sulfide in Groundwater 84:9:103
Troy L. Lyn and James S. Taylor

Health effects

- Cancer Risk From Radon 84:3:77
Douglas John Crawford-Brown (See also Erratum 84:4:4)

Human resources

- Making Automated Systems Successful: How to Win the Hearts of Organizational Skeptics 84:1:52
Mary Winter Bennett and W. Joseph Myers

- Organizational Health: How Does Your Utility Rate? 84:1:55
Herbert A. Marlowe Jr.

- Performance Chart Increases Crew Productivity 84:2:53
Stanley Y. Siu

- Workforce 2000: Coming Soon to Your Workplace 84:6:34
Mark A. Scharfenaker

- Water Utilities Prepare for Workforce 2000 84:6:41
Sheila Y. Arthur, Voviette D. Morgan, Martin D. Chavez, and Walter S. Zeisl

- Workforce Literacy in the Water Industry 84:6:46
Herbert A. Marlowe Jr. and Bevin A. Beaudet

- Accommodating the Biological Clocks of Shift Workers 84:6:50
Geraldene Felton, Thomas Kruckeberg, and Edward Moreno

Inorganics

- Using Ion Chromatography to Analyze Inorganic Disinfection By-products 84:11:88
Daniel P. Hautman and Michele Bolyard

International water supply

- Soviet, US Water Supply Problems Stem From Similar Causes 84:2:17
Joseph L. Glicker

- Canada's Cooperative Approach to Drinking Water Regulation 84:4:120
Karen Carter Decker and Bruce W. Long

Iron

- Iron and Manganese Sequestration Facilities Using Sodium Silicate 84:2:77
R. Bruce Robinson, Gregory D. Reed, and Brett Frazier

- From Conventional to Biological Removal of Iron and Manganese in France 84:4:158
Pierre Mouchet

- Transformation of NOM by Ozone and Its Effect on Iron and Aluminum Solubility 84:6:56
Marc Edwards and Mark M. Benjamin

- Evaluating a New Granular Iron Oxide for Removing Lead From Drinking Water 84:7:101
Thomas L. Theis, Ramesh Iyer, and Sonia K. Ellis

- Removing Chlorite by the Addition of Ferrous Iron 84:11:63
Angela Iatrou and William R. Knocke

Lead

- Congress Debates Lead Legislation 84:1:12
Albert E. Warburton and Frederick W. Pontius (See also Erratum 84:3:4)

- Removing Lead From Drinking Water With a Point-of-Use GAC Fixed-Bed Adsorber 84:2:90
Roy W. Kuennen, Roy M. Taylor, Karl Van Dyke, and Kevin Groenevelt

- Meeting the Monitoring Challenges of the Lead and Copper Rule 84:7:12
Michelle Frey

- Procedures for Preserving Lead in Drinking Water Samples 84:7:89
Charles R. Feldmann, James B. Walasek, and Larry B. Lobring

- Evaluating a New Granular Iron Oxide for Removing Lead From Drinking Water 84:7:101
Thomas L. Theis, Ramesh Iyer, and Sonia K. Ellis

Legislation/Regulation

- Congress Debates Lead Legislation 84:1:12
Albert E. Warburton and Frederick W. Pontius (See also Erratum 84:3:4)

- USEPA Implements Stormwater Regulations 84:2:42
Mark A. Scharfenaker

- How Federal Drinking Water Regulations Are Developed 84:3:28
Frederick W. Pontius

- Defining Best Available Technology 84:4:34
Frederick W. Pontius

- Variances and Exemptions for Small Systems 84:5:18
Frederick W. Pontius

- OSHA—Our Savior Has Arrived 84:6:22
Ray C. Lehr

- USEPA's Ban on Asbestos-Containing Products Invalidated 84:7:22
Frederick W. Pontius

- New Regulations Set for Phase V Contaminants 84:8:30
Frederick W. Pontius

- USEPA Release Draft Ground Water Disinfection Rule 84:9:25
Thomas R. Grubbs and Frederick W. Pontius

- USEPA's Proposed Radon MCL: Too High, Too Low, Or Just Right? 84:10:20
Frederick W. Pontius

- 'Reg Neg' Considered for D-DBP Rule 84:11:22
Frederick W. Pontius

- Proposed Sulfate MCL Reconsidered 84:12:20
Frederick W. Pontius

- Management

- Making Automated Systems Successful: How to Win the Hearts of Organizational Skeptics 84:1:52
Mary Winter Bennett and W. Joseph Myers

Organizational Health: How Does Your Utility Rate?	84:1:55
<i>Herbert A. Marlowe Jr.</i>	
Workforce 2000: Coming Soon to Your Workplace	84:6:34
<i>Mark A. Scharfenaker</i>	
Water Utilities Prepare for Workforce 2000	84:6:41
<i>Sheila Y. Arthur, Voviette D. Morgan, Martin D. Chavez, and Walter S. Zeisl</i>	
Workforce Literacy in the Water Industry	84:6:46
<i>Herbert A. Marlowe Jr. and Bevin A. Beaudet</i>	
Accommodating the Biological Clocks of Shift Workers	84:6:50
<i>Geraldene Felton, Thomas Kruckeberg, and Edward Moreno</i>	
Washington Suburban Sanitary Commission Implements GIS	84:7:62
<i>James R. Cannistra, Richard Leadbeater, and Ray Humphries</i>	
Computer Control of Operations at a Large Distribution System ...	84:7:68
<i>Chun Hou Orr, Bogimil Ulanicki, and J.P. Rance</i>	
Developing and Utilizing Data Bases for Water Main Rehabilitation	84:7:75
<i>Ahmad Habibian</i>	
Compact Treatment Plant Layout	84:8:36
<i>Darryl J. Corbin, Robert D.G. Monk, Cynthia J. Hoffman, and S. Frank Crumb Jr.</i>	
Integrated Pilot Testing Pays Off	84:8:43
<i>Richard E. Hubel, Elaine W. Howe, Andrzej Wilczak, Timothy A. Wolfe, and Steven J. Tambini</i>	
Intake Modeling Yields Significant Savings	84:8:52
<i>Brad Montgomery</i>	
Avoiding Litigation and Preserving Public Confidence Through Compliance Auditing	84:9:64
<i>Steven J. Koorse</i>	
What Will Water Rates Be Like in the 1990s?	84:9:68
<i>David F. Russell and Christopher P.N. Woodcock</i>	
Use of EJCDC Documents Reduces Conflicts	84:9:73
<i>Kenneth W. Henderson</i>	
How Strategic Is Your Planning?	84:11:42
<i>James D. Sisson</i>	
Optimizing Belt Filter Press Dewatering at the Skinner Filtration Plant	84:11:47
<i>George Johnson, George G. Buchanan, and Dale D. Newkirk</i>	

Membranes

Committee Report: Membrane Processes in Potable Water Treatment	84:1:59
<i>AWWA Membrane Technology Research Committee</i>	

SOC Removal in a Membrane Softening Process	84:1:68
<i>Steven J. Duranceau, James S. Taylor, and Luke A. Mulford</i>	
Removing Color From a Groundwater Source	84:1:79
<i>Lo Tan and Richard G. Sudak</i>	
Mass Transport Considerations for Pressure-Driven Membrane Processes	84:1:88
<i>Mark R. Wiesner and Shankaraman Chellam</i>	
MF-PAC for Treating Waters Contaminated With Natural and Synthetic Organics	84:12:95
<i>Massoud Pirbazari, Badri N. Badriyha, and Varadarajan Ravindran</i>	
DBP Control by Nanofiltration: Cost and Performance	84:12:104
<i>Trisha J. Blau, James S. Taylor, Kevin E. Morris, and Luke A. Mulford</i>	

Meters

Proper Meter Sizing for Increased Accountability and Revenue ..	84:7:53
<i>John P. Sullivan Jr. and Elisa M. Speranza</i>	

Microorganisms

Controlling Microbes Versus Disinfection By-products	84:2:24
<i>Face to Face</i>	
Assimilable Organic Carbon as an Indicator of Bacterial Regrowth	84:2:57
<i>Dirk van der Kooij</i>	
Effects of Particle Detachment in Granular-Media Filtration	84:2:66
<i>Thomas M. Ginn Jr., Appiah Amirtharajah, and Philip R. Karr</i>	
Presence-Absence Coliform Monitoring Has Statistical Limitations	84:3:66
<i>M. Brett Borup</i>	
Outbreaks of Waterborne Disease in the United States: 1989-90 ..	84:4:129
<i>Barbara L. Herwaldt, Gunther F. Craun, Susan L. Stokes, and Dennis D. Juranek</i>	
Comparing Chlorination and Chloramination for Controlling Bacterial Growth	84:7:80
<i>Douglas G. Neden, Robert J. Jones, Judy R. Smith, Gregory J. Kirmeyer, and Glenn W. Foust</i>	
Examining Relationships Between Particle Counts and <i>Giardia</i> , <i>Cryptosporidium</i> , and Turbidity	84:12:54
<i>Mark W. LeChevallier and William D. Norton</i>	

Monitoring

Presence-Absence Coliform Monitoring Has Statistical Limitations	84:3:66
<i>M. Brett Borup</i>	

1990 Erratum

Erratum to: Contaminants in Polyelectrolytes Used in Water Treatment	84:9:4
<i>Raymond D. Letterman and Richard W. Pero</i>	

Organics

Assimilable Organic Carbon as an Indicator of Bacterial Regrowth	84:2:57
<i>Dirk van der Kooij</i>	
Evaluating GAC Adsorbers for the Removal of PCBs and Toxaphene	84:2:83
<i>Massoud Pirbazari, Badri N. Badriyha, Sung-Hyun Kim, and Richard J. Millner</i>	
Using Inclined Cascade Aeration to Strip Chlorinated VOCs From Drinking Water	84:5:62
<i>Brace H. Boyden, Duong T. Banh, Houston K. Huckabay, and Joseph B. Fernandes</i>	
Transformation of NOM by Ozone and Its Effect on Iron and Aluminum Solubility	84:6:56
<i>Marc Edwards and Mark M. Benjamin</i>	
Molecular Size Distributions of Dissolved Organic Matter ...	84:6:67
<i>Gary L. Amy, Raymond A. Sierka, James Bedessem, David Price, and Lo Tan</i>	
Permeation of Organic Contaminants Through Gasketed Pipe Joints	84:7:92
<i>Edward C. Glaza and Jae K. Park</i>	
Effect of Preozonation on Coagulant-NOM Interactions	84:8:63
<i>Marc Edwards and Mark M. Benjamin</i>	
Effects of Background Dissolved Organic Matter on TCE Adsorption by GAC	84:8:81
<i>Margaret C. Carter, Walter J. Weber Jr., and Kevin P. Olmstead</i>	
Effect of Molecular Oxygen on the Scaleup of GAC Adsorbers ...	84:8:98
<i>Radisav D. Vidic, George A. Sorial, Spyridon P. Papadimas, Makram T. Suidan, and Thomas F. Speth</i>	
Using Isotherms to Predict GAC's Capacity for Synthetic Organics	84:9:113
<i>S. Qi, Vernon L. Snoeyink, E.A. Beck, Wayne E. Koffskey, and Benjamin W. Lykins Jr.</i>	
MF-PAC for Treating Waters Contaminated With Natural and Synthetic Organics	84:12:95
<i>Massoud Pirbazari, Badri N. Badriyha, and Varadarajan Ravindran</i>	

Ozone

- Transformation of NOM by Ozone and Its Effect on Iron and Aluminum Solubility 84:6:56
Marc Edwards and Mark M. Benjamin
- Effect of Preozonation on Coagulant-NOM Interactions 84:8:63
Marc Edwards and Mark M. Benjamin
- Removal of Atrazine From Drinking Water by Ozonation 84:9:91
Craig D. Adams and Stephen J. Randtke
- Disinfection By-product Formation and Control by Ozonation and Biotreatment 84:11:53
Richard J. Milner, Hiba M. Shukairy, and R. Scott Summers
- Pilot Study of the Effect of Ozone and PEROXONE on In-Line Direct Filtration 84:12:72
John E. Tobiason, James K. Edzwald, O.D. Schneider, M.B. Fox

Package plants

- Safe Drinking Water From Small Systems: Treatment Options 84:5:49
James A. Goodrich, Jeffrey Q. Adams, Benjamin W. Lykins Jr., and Robert M. Clark

PEROXONE

- Pilot Study of the Effect of Ozone and PEROXONE on In-Line Direct Filtration 84:12:72
John E. Tobiason, James K. Edzwald, O.D. Schneider, M.B. Fox, and Howard Dunn

Primacy

- Will States Keep Primacy? 84:1:36
Roundtable
- Primacy Funding Strategies ... 84:11:28
Roundtable

Public involvement

- Convincing the Public That Drinking Water is Safe 84:1:46
Joseph L. Glicker
- Quality is Defined by the Customer 84:8:20
Robert H. Reinert
- Avoiding Litigation and Preserving Public Confidence Through Compliance Auditing 84:9:64
Steven J. Koorse

Radon

- Estimating the Cost of Compliance With the Drinking Water Standard for Radon 84:3:51
Robert S. Raucher and Joseph A. Drago
- Cancer Risk From Radon 84:3:77
Douglas John Crawford-Brown (See also Erratum 84:4:4)

Rates

- What Will Water Rates Be Like in the 1990s? 84:9:68
David F. Russell and Christopher P.N. Woodcock

Regulations

- Congress Debates Lead Legislation 84:1:12
Albert E. Warburton and Frederick W. Pontius (See also Erratum 84:3:4)
- USEPA Implements Stormwater Regulations 84:2:42
Mark A. Scharfenaker
- How Federal Drinking Water Regulations Are Developed 84:3:28
Frederick W. Pontius
- A Current Look at the Federal Drinking Water Regulations 84:3:36
Frederick W. Pontius
- Estimating the Cost of Compliance With the Drinking Water Standard for Radon 84:3:51
Robert S. Raucher and Joseph A. Drago
- National Survey of Drinking Water Standards and Guidelines for Chemical Contaminants 84:3:72
Leslie J. McGeorge, Sandra J. Krietzman, Carolyn Jean Dupuy, and Bruce Mintz
- Cancer Risk From Radon 84:3:77
Douglas John Crawford-Brown (See also 84:4:4)
- Defining Best Available Technology 84:4:34
Frederick W. Pontius
- Canada's Cooperative Approach to Drinking Water Regulation 84:4:120
Karen Carter Decker and Bruce W. Long
- OSHA—Our Savior Has Arrived 84:6:22
Ray C. Lehr
- Meeting the Monitoring Challenges of the Lead and Copper Rule ... 84:7:12
Michelle Frey
- USEPA's Ban on Asbestos-Containing Products Invalidated 84:7:22
Frederick W. Pontius
- New Regulations Set for Phase V Contaminants 84:8:30
Frederick W. Pontius
- USEPA Release Draft Ground Water Disinfection Rule 84:9:25
Thomas R. Grubbs and Frederick W. Pontius
- Characterizing the Influence of Surface Water on Water Produced by Collector Wells 84:9:77
M. Susan Mikels
- USEPA's Proposed Radon MCL: Too High, Too Low, Or Just Right? 84:10:20
Frederick W. Pontius
- 'Reg Neg' Considered for D-DBP Rule 84:11:22
Frederick W. Pontius

Proposed Sulfate MCL

- Reconsidered 84:12:xx
Frederick W. Pontius

Sludge

- Selective Alum Recovery From Clarifier Sludge 84:1:93
Arup K. Sengupta and Bo Shi
- Optimizing Belt Filter Press Dewatering at the Skinner Filtration Plant 84:11:47
George Johnson, George G. Buchanan, and Dale D. Newkirk

Small systems

- Small Water Systems at a Crossroads 84:5:40
John E. Cromwell III, Walter L. Harner, Jay C. Africa, and J. Stephen Schmidt
- Safe Drinking Water From Small Systems: Treatment Options 84:5:49
James A. Goodrich, Jeffrey Q. Adams, Benjamin W. Lykins Jr., and Robert M. Clark
- Volunteers Integral to Small System's Success 84:5:56
Joseph U. Tamburini and William L. Habenicht
- Using Inclined Cascade Aeration to Strip Chlorinated VOCs From Drinking Water 84:5:62
Brace H. Boyden, Duong T. Banh, Houston K. Huckabay, and Joseph B. Fernandes
- Pilot Testing a Limestone Contactor in British Columbia 84:5:70
Lawrence Benjamin, Ronald W. Green, Anita Smith, and Stephan Summerer
- Removing Natural Organic Matter by Conventional Slow Sand Filtration 84:5:80
M. Robin Collins, T. Taylor Eighmy, James M. Fenstermacher Jr., and Stergios K. Spanos

Stormwater

- USEPA Implements Stormwater Regulations 84:11:42
Mark A. Scharfenaker

Sulfur

- Assessing Sulfur Turbidity Formation Following Chlorination of Hydrogen Sulfide in Groundwater 84:9:103
Troy L. Lyn and James S. Taylor

Sulfate

- Proposed Sulfate MCL Reconsidered 84:12:20
Frederick W. Pontius

Synthetic organic chemicals

- SOC Removal in a Membrane
Softening Process 84:1:68
*Steven J. Duranceau, James S. Taylor,
and Luke A. Mulford*
- Effects of Background Dissolved
Organic Matter on TCE Adsorption
by GAC 84:8:81
*Margaret C. Carter, Walter J. Weber
Jr., and Kevin P. Olmstead*
- Using Isotherms to Predict GAC's
Capacity for Synthetic
Organics 84:9:113
*S. Qi, Vernon L. Snoeyink, E.A. Beck,
Wayne E. Kofsky, and Benjamin W.
Lykins Jr.*
- MF-PAC for Treating Waters
Contaminated With Natural and
Synthetic Organics 84:12:95
*Massoud Pirbazari, Badri N.
Badriyha, and Varadarajan Ravindran*

Taste and odor

- Tastes and Odors Associated With
Chlorine Dioxide 84:6:82
*Andrea M. Dietrich, Margaret P. Orr,
Daniel L. Gallagher, and Robert C.
Hoehn*

- Assessing the Quality of Flavor Profile
Analysis 84:6:89
*An-Kuo Meng and Irwin H. (Mel)
Suffet*
- Cucumber Flavor in Philadelphia's
Drinking Water 84:8:92
*Gary A. Burlingame, John J.
Muldowney, and Roy E. Maddrey*

Turbidity

- Selecting Particle Counters for Process
Monitoring 84:12:46
*Carrie M. Lewis, Erika E.
Hargesheimer and Clarice M. Yentsch*
- Examining Relationships Between
Particle Counts and *Giardia*,
Cryptosporidium, and
Turbidity 84:12:54
*Mark W. LeChevallier and William D.
Norton*

Volatile organic chemicals

- Using Inclined Cascade Aeration to
Strip Chlorinated VOCs From
Drinking Water 84:5:62
*Brace H. Boyden, Duong T. Banh,
Houston K. Huckabay, and Joseph B.
Fernandes*

- Effect of Molecular Oxygen on the
Scaleup of GAC Adsorbers ... 84:8:98
*Radisav D. Vidic, George A. Sorial,
Spyridon P. Papadimas, Makram T.
Suidan, and Thomas F. Speth*

Water supply

- Politics of Water Supply 84:8:26
Face to Face

Waterborne disease

- Assimilable Organic Carbon as an
Indicator of Bacterial
Regrowth 84:2:57
Dirk van der Kooij
- Effects of Particle Detachment in
Granular-Media Filtration ... 84:2:66
*Thomas M. Ginn Jr., Appiah
Amirtharajah, and Philip R. Karr*
- Outbreaks of Waterborne Disease in
the United States: 1989-90 ... 84:4:129
*Barbara L. Herwaldt, Gunther F.
Craun, Susan L. Stokes, and Dennis
D. Juranek*

Wetlands

- Protecting Wetlands 84:7:26
Roundtable

1992 AUTHOR INDEX

Adams, Jeffrey Q.—84:5:49
Adams, Craig D.—84:9:91
Africa, Jay C.—84:5:40
Allen, Martin J.—84:5:10
Amirtharajah, Appiah—84:2:66
Amy, Gary L.—84:6:67
Arthur, Sheila Y.—84:6:41
Badriyha, Badri N.—84:2:83
Bales, Todd Scott—84:2:50
Banh, Duong T.—84:5:62
Barnett, Elliott—84:6:76
Barth, Robert C.—84:11:94
Bartilucci, Nicholas J.—84:10:74
Beaudet, Bevin A.—84:1:55, 84:6:46
Beck, E.A.—84:9:113
Becker, William C.—84:4:136
Bedessem, James—84:6:67
Behling, Patrick J.—84:10:74
Benjamin, Gary—84:8:22
Benjamin, Lawrence—84:5:70
Benjamin, Mark M.—84:6:56, 84:8:63
Bennett, Mary Winter—84:1:52
Berman, Donald—84:5:98
Bernstam, Elmer—84:7:48
Blau, Trisha J.—84:12:104
Bolyard, Michele—84:11:88
Harry J. Borchers—84:2:42
Borup, M. Brett—84:3:66

Bouchard, Dermont C.—84:9:85
Boyden, Brace H.—84:5:62
Buchanan, George G.—84:11:47
Burlingame, Gary A.—84:8:92
Brandao, Cristina C.S.—84:5:101
Cannistra, James R.—84:7:62
Cardona, Martha E.—84:10:34
Carter, Margaret C.—84:8:81
Chavez, Martin D.—84:6:41
Chellam, Shankararaman—84:1:88
Chowdhury, Zaid K.—84:11:78
Clark, Sarah C.—84:12:61
Clark, Robert M.—84:2:42, 84:5:49,
84:7:18, 84:7:48
Collins, M. Robin—84:5:80
Corbin, Darryl J.—84:8:36
Covert, Terry C.—84:5:98
Coyle, Judith A.—84:2:42
Craun, Gunther F.—84:4:129
Crawford-Brown, Douglas John—
84:3:77
Cromwell, John E. III—84:5:40
Crumb, S. Frank Jr.—84:8:36
Cushing, Robert S.—84:12:61
Dagois, Gérard—84:8:73
Decker, Karen Carter—84:4:120
Deininger, Rolf A.—84:7:48, 84:11:26
DeKam, John A.—84:9:33

DeWolfe, James R.—84:8:73
Dietrich, Andrea M.—84:6:82
Drago, Joseph A.—84:3:51
Dunn, Howard J.—84:3:92
Dupuy, Carolyn Jean—84:3:72
Duranceau, Steven J.—84:1:68
Dziegielewski, Benedykt—84:10:46
Edwards, Marc—84:6:56, 84:8:63
Edzwald, James K.—84:3:92
Eighmy, T. Taylor—84:5:80
Ellis, Sonia K.—84:7:101
Elwell, Frederick H.—84:6:12
Fair, Patricia Snyder—84:11:94
Feldmann, Charles R.—84:7:89
Felton, Geraldene—84:6:50
Fenstermacher, James M. Jr.—84:5:80
Fernandes, Joseph B.—84:5:62
Foust, Glenn W.—84:7:80
Fox, Michael B.—84:12:72
Frazier, Brett—84:2:77
Frey, Michelle—84:7:12
Gallagher, Daniel L.—84:6:82
Ginn, Thomas M. Jr.—84:2:66
Glaza, Edward C.—84:7:92
Glicker, Joseph L.—84:1:17, 84:1:46
Goodrich, James A.—84:5:49
Gordon, Gilbert—84:11:69
Graham, Nigel J.D.—84:5:105

- Grayman, Walter M.—84:2:42, 84:7:18
 Green, Ronald W.—84:5:70
 Greiner, Anthony D.—84:11:99
 Griese, Mark H.—84:11:69
 Groenevelt, Kevin—84:2:90
 Grubbs, Thomas R.—84:9:25
 Habenicht, William L.—84:5:56
 Habibian, Ahmad—84:7:75
 Han, Mooyoung—84:10:79
 Hao, Oliver J.—84:10:92
 Hargesheimer, Erika E.—84:12:46
 Harner, Walter L.—84:5:40
 Harrington, Gregory W.—84:11:78
 Hart, Vincent S.—84:12:40
 Hautman, Daniel P.—84:11:88
 Henderson, Kenneth W.—84:9:73
 Henderson, R. Todd—84:10:34
 Hertz, Beth G.—84:2:42
 Herwaldt, Barbara L.—84:4:129
 Hess, Alan F.—84:7:48
 Heung, Kim G.—84:8:56
 Hoehn, Robert C.—84:6:82
 Hoffman, Cynthia J.—84:8:36
 Howe, Elaine W.—84:8:43
 Hubel, Richard E.—84:8:43
 Huckabay, Houston K.—84:5:62
 Humphries, Ray—84:7:62
 Iatrou, Angela—84:11:63
 Iyer, Ramesh—84:7:101
 Johnson, Clifford H.—84:5:98
 Johnson, George—84:11:47
 Johnson, C.E.—84:12:40
 Johnson, Scott A.—84:5:98
 Jones, Robert J.—84:7:80
 Juranek, Dennis D. Jr.—84:4:129
 Kaczur, Jerry J.—84:11:69
 Kaminski, Gary S.—84:3:92
 Karr, Philip R.—84:2:66
 Keeley, Kurt—84:10:30
 Kim, Sung-Hyun—84:2:83
 Kirmeyer, Gregory J.—84:7:80
 Knappe, Detlef R.U.—84:8:73
 Knocke, William R.—84:11:63
 Kobrick, J. Douglas—84:10:65
 Koffskey, Wayne E.—84:9:113
 Koorse, Steven J.—84:9:64
 Krietzman, Sandra J.—84:3:72
 Kruckeberg, Thomas—84:6:50
 Kuennen, Roy W.—84:2:90
 Larson, Keith R.—84:10:46
 Lawler, Desmond F.—84:10:79
 Lay, Trudie—84:5:10
 Leadbeater, Richard—84:7:62
 LeChevallier, Mark W.—84:4:136
 Lee, Ramon G.—84:4:136
 Lehr, Ray C.—84:6:22
 Letterman, Raymond D.—84:12:40
 Lewis, Carrie M.—84:12:46
 Lim, Siang (Daniel)—84:8:56
 Lobring, Larry B.—84:7:89
 Long, Bruce W.—84:4:120
 Loveday, D. Wayne—84:6:76
 Luckham, Paul F.—84:5:105
 Lyn, Troy L.—84:9:103
 Lykins, Benjamin W. Jr.—84:5:49, 84:9:113
 McCarty, Shawn C.—84:5:91
 McGeorge, Leslie J.—84:3:72
 Maddrey, Roy E.—84:8:92
 Males, Richard M.—84:2:42
 Mallon, Kathryn L.—84:3:82
 Manem, Jacques A.—84:4:147, 84:4:152
 Mannion, John B.—84:1:6, 84:2:12, 84:3:10, 84:4:10, 84:5:8, 84:6:10, 84:7:10, 84:8:12, 84:9:14, 84:10:10, 84:11:12, 84:12:12
 Markus, Edward J.—84:10:42
 Marlowe, Herbert A. Jr.—84:1:55, 84:6:46
 Mason, Paralee J.—84:5:98
 Mee, William R. Jr.—84:10:46
 Meng, An-Kuo—84:6:89
 Mikels, M. Susan—84:9:77
 Miltner, Richard J.—84:2:83, 84:11:53
 Mintz, Bruce—84:3:72
 Monk, Robert D.G.—84:8:36
 Montgomery, Brad—84:8:52
 Moreno, Edward—84:6:50
 Morgan, Voviette D.—84:6:41
 Morris, Kevin E.—84:12:104
 Motley, Edward M.—84:8:56
 Mouchet, Pierre—84:4:158
 Muldowney, John J.—84:8:92
 Mulford, Luke A.—84:1:68
 Myers, W. Joseph—84:1:52
 Neden, Douglas G.—84:7:80
 Nelson, John Olaf—84:10:59
 Newkirk, Dale D.—84:11:47
 Norton, William D.—84:12:54
 Obolensky, Alexa—84:11:99
 Olmstead, Kevin P.—84:8:81
 Orr, Chun Hou—84:7:68
 Orr, Margaret P.—84:6:82
 Owen, Douglas M.—84:11:78
 Papadimas, Spyridon P.—84:8:98
 Park, Jae K.—84:7:92
 Phull, Kotu K.—84:10:92
 Pike, Charles W.—84:10:65
 Pirbazari, Massoud—84:2:83
 Ploeser, Jane H.—84:10:65
 Pontius, Frederick W.—84:1:12, 84:3:28, 84:3:36, 84:4:18, 84:5:18, 84:7:22, 84:8:30, 84:9:25, 84:10:20, 84:11:22, 84:12:20
 Price, David—84:6:67
 Qasim, Sayed R.—84:8:56
 Qi, S.—84:9:113
 Rance, J.P.—84:7:68
 Randtke, Stephen J.—84:9:91
 Raucher, Robert S.—84:3:51
 Ravindran, Varadarajan—84:12:95
 Reed, Gregory D.—84:2:77
 Reinert, Robert H.—84:8:20
 Rice, Eugene W.—84:5:98
 Rittmann, Bruce E.—84:4:147
 Robinson, R. Bruce—84:2:77, 84:6:76
 Rothstein, Eric—84:10:52
 Russell, David F.—84:9:68
 Scharfenaker, Mark A.—84:2:18, 84:6:34
 Schmidt, J. Stephen—84:5:40
 Schneider, O.D.—84:12:72
 Schorr, Paul—84:4:136
 Sengupta, Arup K.—84:1:96
 Shaw, Douglas T.—84:10:34
 Shi, Bo—84:1:96
 Shukairy, Hiba M.—84:11:53
 Sierka, Raymond A.—84:6:67
 Simmers, Kathleen W.—84:10:92
 Singer, Philip C.—84:11:99
 Sisson, James D.—84:11:42
 Siu, Stanley Y.—84:2:53
 Smith, Judy R.—84:7:80
 Smith, Anita—84:5:70
 Snoeyink, Vernon L.—84:3:82, 84:8:73, 84:9:113
 Snyder, Joe—84:6:76
 Sorial, George A.—84:8:98
 Spanos, Stergios K.—84:5:80
 Speranza, Elisa M.—84:7:53
 Speth, Thomas F.—84:8:98
 Standridge, Jon H.—84:5:91
 Stasiak, Marilyn C.—84:5:91
 Stokes, Susan L.—84:4:129
 Sudak, Richard G.—84:1:79
 Suffet, Irwin H. (Mel)—84:6:89
 Suidan, Makram T.—84:3:101, 84:8:98
 Sullivan, John P. Jr.—84:7:53
 Summerer, Stephan—84:5:70
 Summers, R. Scott—84:11:53
 Surampalli, Rao Y.—84:9:85
 Tambini, Steven J.—84:8:43
 Tamburini, Joseph U.—84:5:56
 Tan, Lo—84:1:79, 84:6:67
 Taylor, James S.—84:1:68, 84:9:103
 Taylor, Roy M.—84:2:90
 Theis, Thomas L.—84:7:101
 Tobiason, John E.—84:12:72
 Ulanicki, Bogimil—84:7:68
 van der Kooij, Dirk—84:2:57
 Van Dyke, Karl—84:2:90
 Vickers, Amy—84:10:42
 Vidic, Radisav D.—84:3:101, 84:8:98
 Waer, Mark A.—84:3:82
 Walasek, James B.—84:7:89
 Walsh, John P.—84:3:92
 Warburton, Albert E.—84:1:12
 Weber, Walter J. Jr.—84:8:81
 Wiesner, Mark R.—84:1:88
 Wilczak, Andrzej—84:8:43
 Williams, Mary K.—84:9:85
 Wolfe, Timothy A.—84:8:43
 Woodcock, Christopher P.N.—84:9:68
 Yentsch, Clarice M.—84:12:46
 Zeisl, Walter S.—84:6:41

